

587
NEXT TO DAYLIGHT



CATALOG NO. 8

GLEASON-TIEBOUT GLASS CO.

200 FIFTH AVENUE, NEW YORK

CELESTIALITE LIGHTING GLASSWARE



CATALOG NO. 8

Plain Celestialite Glass



If decorative glass is desired write us
for illustrations of etched and tinted
Celestialite units



Celestialite Glass is Made and Sold under
Gleason-Tiebout Glass Company Patents



October, 1937

Printed in U. S. A.

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CELESTIALITE DIVISION

GLEASON-TIEBOUT GLASS COMPANY

200 FIFTH AVENUE, NEW YORK

GLASS ÷ ELECTRICITY = *Celestialite!*



+



=



● Rapid advances in the field of illumination necessitate the constant improvement of auxiliary equipment. Mercury and Mazda combinations, high and low pressure lamps, are some of the up-to-date improvements in the electric lamp field. Millions of dollars have been spent, skilled scientists have labored unceasingly in creating these modern mediums — transforming the harnessed power of electricity into brilliant sources of illumination.

Just as Nature controlled and modified the unbearable glory of the sun, by the sky, clouds and air, so CELESTIALITE—the famous three-layer glass, blue, white and clear—modified the radiance of the first Mazda lamp.

These brilliant new sources of illumina-

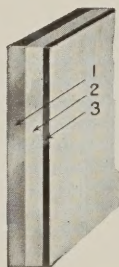
tion can also be modified by the use of variable densities of Celestialite to temper their radiance and make them truly willing servants of mankind.

Celestialite in combination with any modern type of lamp is man's nearest approach to the best of all light — Daylight.

Celestialite glass is made of three different layers of glasses fused together when blown into the mould. These are:

1. Clear crystal glass to provide body and strength.
2. A special translucent white glass to diffuse the rays and soften the light.
3. A rectifying layer of transparent blue glass—to whiten, clarify and perfect the light.

Combined—You have Nature's way imitated — Celestialite.



Owing to its unique construction Celestialite is much stronger than ordinary single layer glass.

SALES HELPS FOR CELESTIALITE DISTRIBUTORS

Wattage of Lamps. Use 2 to 4 watts per square foot of floor area.

Location of Filament. When installing Celestialite glass be sure to locate the filament of the lamp sufficiently high so that the entire surface of the glass will be evenly lighted. If the lamp is placed too low, a bright spot will appear in the bottom of the glass.

Visual Acuity (Ease of Seeing) is considerably increased by use of Celestialite as the test report on the opposite page will prove. Where ideal conditions exist and a semi-indirect type is desired recommend the CELESTIALIER, examples of which are shown on page 8. A variety of styles are available for all sizes of lamps, including the new 1000-watt bi-post lamp. Write for a complete portfolio of designs.

Lamp Renewals. Lamps frequently burn longer than their natural life of 1000 hours. After burning 1000 hours an electric lamp loses its "pep"—the light emitted declines rapidly both in quantity and color value, although the cur-

rent consumption remains stationary. **Warn your customers** not to burn their lamps over 1000 hours. It is time to buy new lamps whenever the Celestialite glass loses its original extraordinary lustre and lively appearance and becomes at all dark or yellow in appearance.

Regular Cleaning. Dirt and dust are light's worst enemies. Dust it out and renew the lamps and a Celestialite installation will be as good as new. Celestialite glass does not depreciate in quality with age.

Deliveries. All units illustrated in this catalog are generally in stock. However, some items will require ten days to two weeks for delivery.

Advertising Helps. Be sure you have a fragment of Celestialite glass so you can acquaint your customer with its unique construction. You should also have photographs of Celestialite installations and printed circulars descriptive of its merits. Send for more when your present supply is exhausted.

All glass is sold f. o. b. New York City
No allowance for breakage
We manufacture and sell the glass only

next to daylight!

● LABORATORY REPORT ●

SUBJECT:

Report on CELESTIALITE
and Opal Glass (Best Type of commercial unit glassware)

TO DETERMINE:

1. Relative Visual Acuity
2. Relative Visibility
3. Relative Eye Comfort
4. Relative Diffusion of Light

LABORATORY FINDINGS:

The sample of Celestialite Glass sent for test transmitted 82 percent as much light as the sample of Opal glass.

Equal visibility of the printed page was, however, obtained with only 80 percent as much light of Celestialite quality as of the quality of the same source (Mazda lamps) transmitted through the Opal glass. Therefore, for the same intensity of source, the Celestialite glass gives slightly higher visibility than the Opal in spite of the fact that there is a higher foot-candle illumination with the Opal glass.

Further, it took only 78-80 percent as much illumination of Celestialite quality as of the Opal just to discriminate a detail of a given size. In addition, the Celestialite glass gives much greater comfort to the eye and much better diffusion of light than the Opal glass.

It would seem, therefore, that the Celestialite glass gives an illumination which is superior to the Opal from the standpoints of visual acuity, visibility, eye comfort, and diffusion of light.

(signed) GERTRUDE RAND

THE RESEARCH LABORATORY
OF PHYSIOLOGICAL OPTICS
BALTIMORE, MARYLAND

next to daylight!

Perhaps the best shape ever devised for general lighting.

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
6	5½	4	40
8	6½	4	60
9⅜	7½	4	100
10	8	4	100
11⅜	9	4	100
12	9½	6	150
14	10	6	200
14	10	8	200
16	11½	6	300
16	11½	8	300
18	13	8	500
18	13	10	500
22	16	16	500 or 750



No. 5920

CELESTIALITE

(Registered and Patented)

Next to Daylight

Due to the unusual shape of this globe, proper attention should be paid to the location of the lamp filament in relation to the widest diameter of the globe.

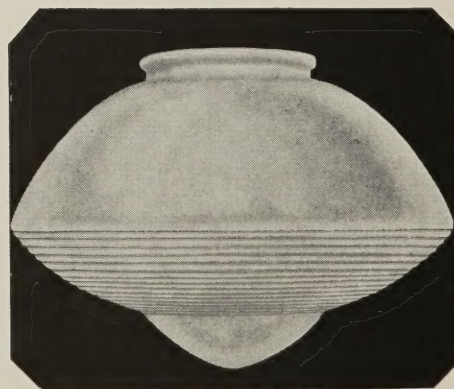


No. 5000 Design Patent No. 89851
(furnished with and without star)

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
10	6¼	4	100
14⅜	9	6	200
16	9½	6	300

A striking new design—ideal for all types of installation.

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
14⅜	9¾	6	200
16⅜	10⅞	6	300



No. 12172

We manufacture and sell the glass only

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No. 12170

Another new shape lending itself to louvre decoration.

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
14 $\frac{3}{8}$	10 $\frac{1}{2}$	6	200
16 $\frac{3}{8}$	11 $\frac{7}{8}$	6	300 to 500

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
8	7	4	75
10	8 $\frac{5}{8}$	4	100
12	10	6	150
14	11 $\frac{1}{2}$	6	200
16	13	6	300



No. 11820

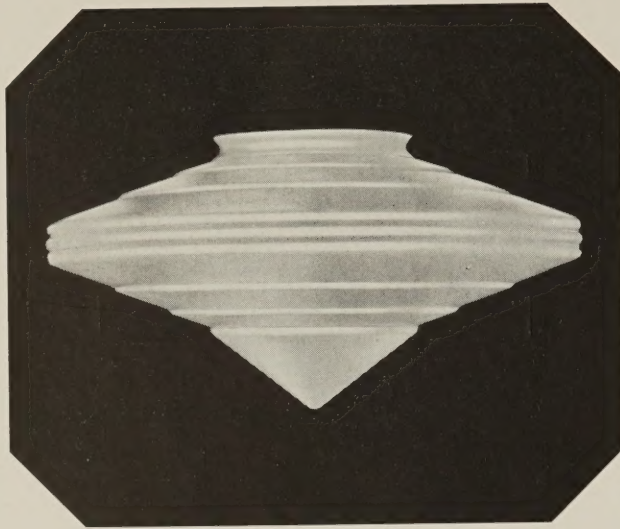


No. 11723

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
9 $\frac{3}{8}$	7 $\frac{1}{2}$	4	100
12 $\frac{3}{8}$	8 $\frac{1}{2}$	4	150
14 $\frac{3}{8}$	8 $\frac{7}{8}$	6	200
16 $\frac{3}{8}$	10 $\frac{1}{4}$	6	300
18	12 $\frac{1}{4}$	6	500

We manufacture and sell the glass only

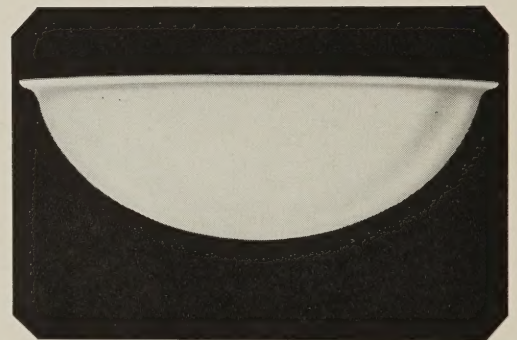
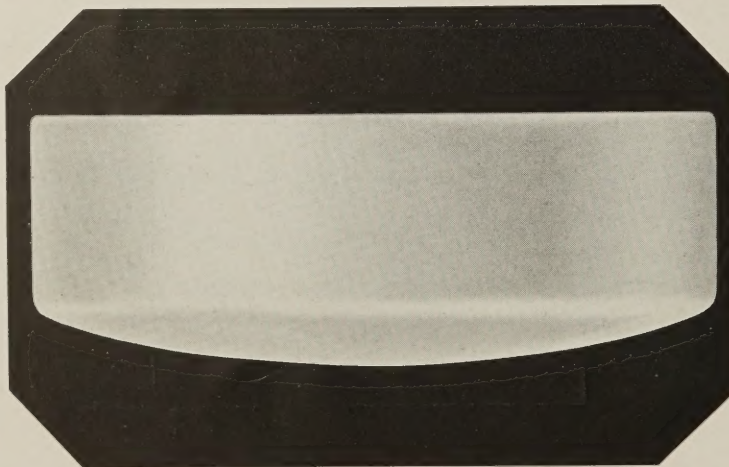
next to daylight!

**No. 12200**

Diameter Inches	Depth Inches
$16\frac{3}{8}$	$8\frac{1}{4}$
Fitter Inches	Wattage Mazda Lamp
6	300

No. 5541—With Lip No. 5592—No Lip
Can be furnished with or without hole in bottom.

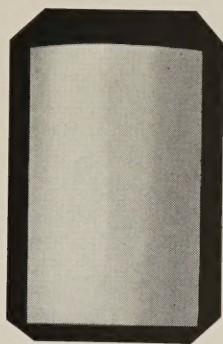
Diameter Inches	Depth Inches	Wattage Mazda Lamp
10	$3\frac{3}{4}$	100
12	4	150
14	$4\frac{1}{2}$	200
16	5	300
18	6	300
20	7	500
22	$6\frac{1}{2}$	500
24	7	750

**No. 5541-5592****No. 11550**

Diameter Inches	Depth Inches
8	3
10	$3\frac{1}{4}$
12	$4\frac{3}{4}$
14	$5\frac{1}{4}$
16	$5\frac{1}{4}$
18	$6\frac{3}{4}$
20	$7\frac{1}{2}$
22	$7\frac{1}{2}$
24	$7\frac{1}{2}$

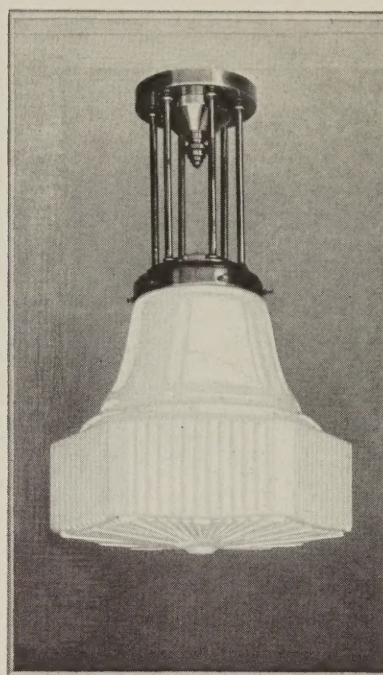
We manufacture and sell the glass only

next to daylight!

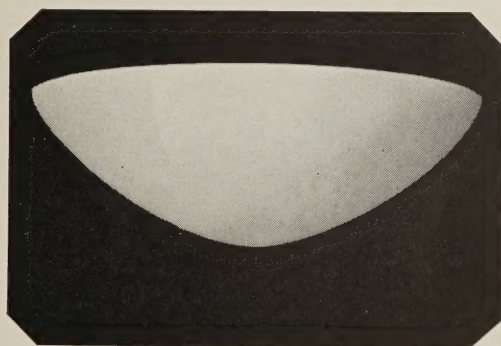


No. 2249

Diameter Inches	Depth Inches	Diameter Inches	Depth Inches
3	6	8	12
4	4	10	12
4	6	10	14
4	8	12	14
5	5	12	16
6	6	14	16
6	8	14	18
8	10		



No. 11602



No. 11011

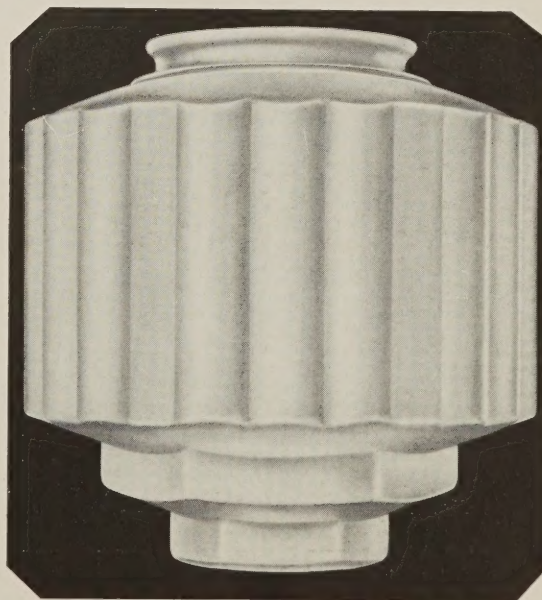
For semi-indirect lighting.
Supplied with or without hole in bottom.

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
$19\frac{3}{8}$	$17\frac{1}{4}$	8	500 to 1000

Diam. Inches	10	$11\frac{3}{8}$	12	14	16	18	20	22
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No. 11584 Sizes

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
$6\frac{1}{2}$	14	4	150
10	$20\frac{7}{8}$	6	300 to 500
$11\frac{3}{8}$	$11\frac{1}{4}$	6	200
$13\frac{1}{8}$	$11\frac{3}{4}$	6	300
$15\frac{3}{8}$	14	8	500 to 750



No. 11584

We manufacture and sell the glass only

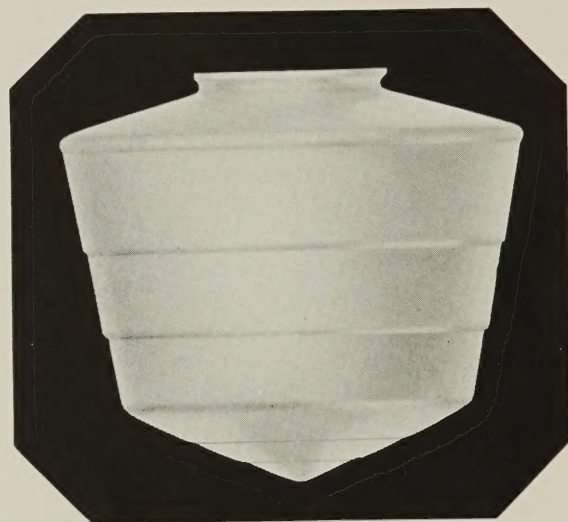
next to daylight!

**No. 11440**

Can be used with either the single chain hangar or with a four chain band suspension. When used with the metal band, the cleaning can be done inside and out without moving the globe from its support.

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
12	10 $\frac{3}{8}$	6	150
14	11 $\frac{5}{8}$	6	200
16	13	6	300
18	14 $\frac{1}{2}$	8	300 to 500
20	16 $\frac{1}{8}$	10	500 to 750
24	19	12	1000 and over

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
10	9	4 or 5	100
12	11	6	150
14	12	6	200
16	14	6 or 8	300 to 500

**No. 12116**

The small sizes make excellent elevator and corridor lights. The large sizes are ideal for use on ornamental posts, etc.

**No. B-2069**

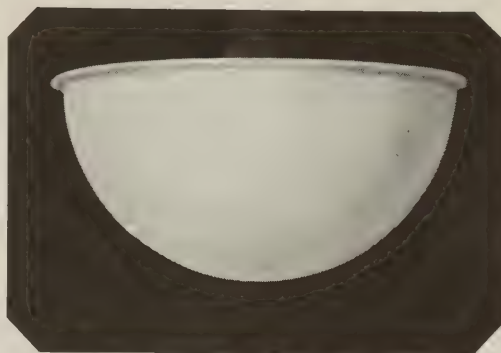
Diameter Inches	Fitter Inches	Wattage Mazda Lamp
6	4	40
8	4	60
10	5	100
12	6	150
14	6	200
16	8	300
18	8	400
20	10	500
22	10	500
24	12	750 to 1000

We manufacture and sell the glass only

next to daylight!

Can be furnished with or without lip or with or without hole in bottom.

Diameter Inches	Depth Inches	Wattage Mazda Lamp
6	3	40
7	3½	60
8	4	60
9	4½	100
10	5	100
12	6	150
14	7	200
16	8	300
18	9	300
20	10	500
22	11	500
24	12	750
26	13	1000



No. 2160

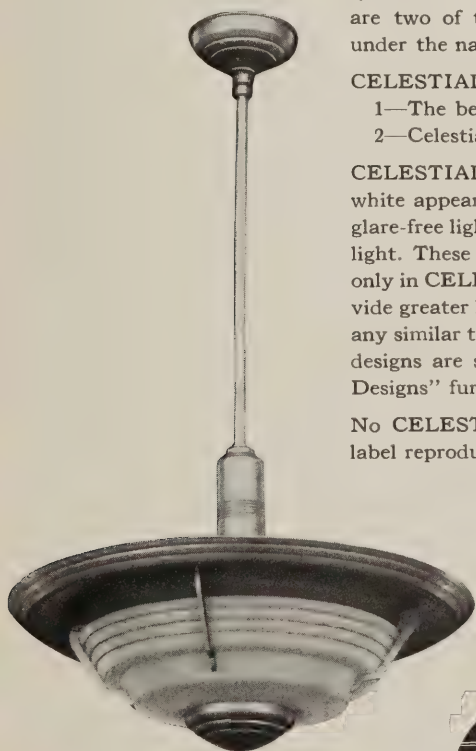
● These illustrate a new principle in lighting. They are two of the many designs available, marketed under the name of CELESTIALIER.

CELESTIALIER combines:

- 1—The benefits of indirect reflected light.
- 2—Celestialite "Next-to-Daylight" direct light.

CELESTIALIER alone has the advantages of snow white appearance when lighted. It provides direct, glare-free light and a desirable percentage of indirect light. These two important features are obtainable only in CELESTIALIER and these fixtures will provide greater lighting efficiency per watt of light than any similar type of equipment on the market. Other designs are shown in the "Portfolio of Celestialier Designs" furnished upon request.

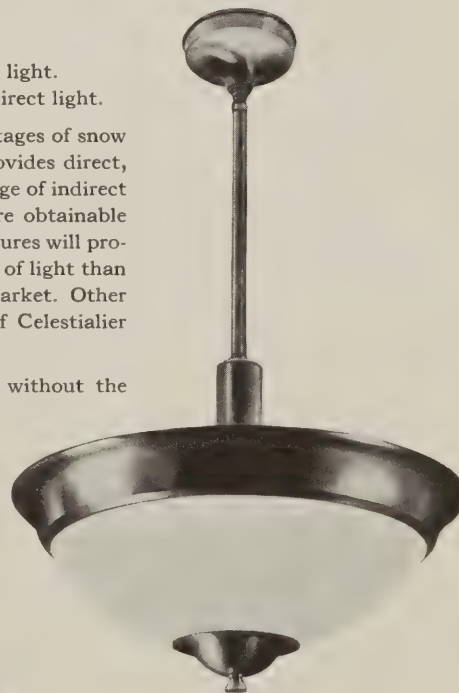
No CELESTIALIER fixture genuine without the label reproduced below:



No. 6080—20" Diameter—
200 or 300 watts

No. 6081—26" Diameter—
300 or 500 watts

No. 6082—26" Diameter—
750 or 1000 Bi-post Lamp



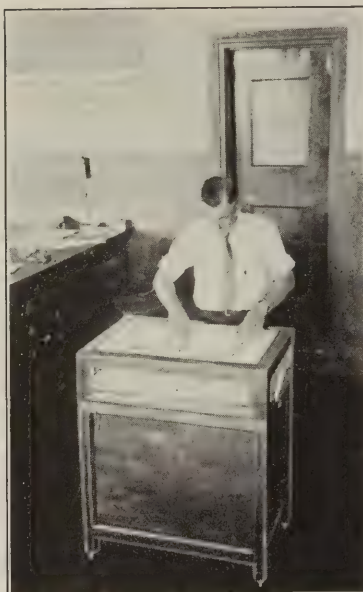
Type "C" Celestialier
Registered and Patented
18" Overall Diameter
3 ft. Standard Overall Length
200 or 300 Watt
22" Overall Diameter
3 ft. Standard Overall Length
500 or 750 Watt

We manufacture and sell the glass only

next to daylight!



Hearst Publishing Co. — Press Room Comparison Table Lighted with Benjamin Skylight Fixture Equipped with Celestialite.



Crowell Publishing Co. — Shadow Box or Register Table Equipped with Celestialite Panel.



B. Kuppenheimer Co. — Inspection Units Equipped with Celestialite Glass.

FLAT GLASS FOR BUILT-IN LIGHTING

● Celestialite in flat panel form has been used for some time in the several accepted types of built-in lighting or flush boxes.

Because of the soft luminous white light and the absence of glare or spotty effect, it is also ideal for special uses. The above photographs demonstrate a number of different applications.

The view in B. Kuppenheimer Co.'s plant in Chicago demonstrates the part Celestialite panels play in providing the inspectors of cloth with an adjunct to natural daylight, insuring the spotting of even the slightest flaw in the color of fabric.

Where busy presses turn out colored supplements by the thousands, color must be constantly compared to prevent the slightest variation. That is why the Hearst Publishing Co. uses the special color comparison fixture shown in the photograph above, equipped with the "Next-to-Daylight"

Celestialite Glass. The soft brilliance of Celestialite enables the inspector to spot a variation in color immediately, at the same time guarding his eyes against glare.

In the modern publishing plant of the Crowell Publishing Co. care must be exercised in printing of two or four color plates, the checking of accuracy of make-up of advertisements, the assembly of component parts of single color plates. That is why Celestialite was chosen for their register tables (shadow boxes) illustrated in the photograph. They advise that Celestialite eliminates "hot spots" or pools of excessive brilliancy and prevents eye strain.

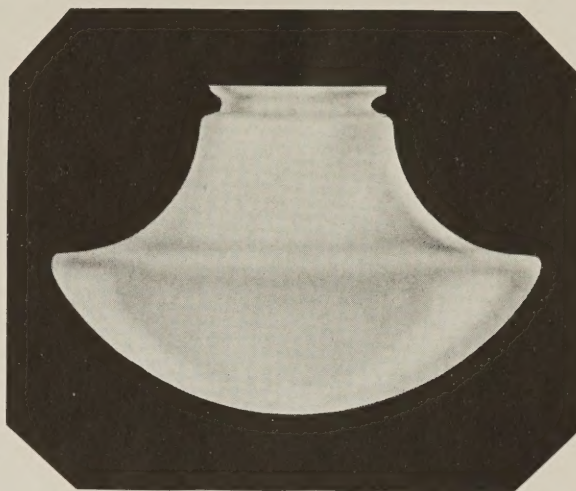
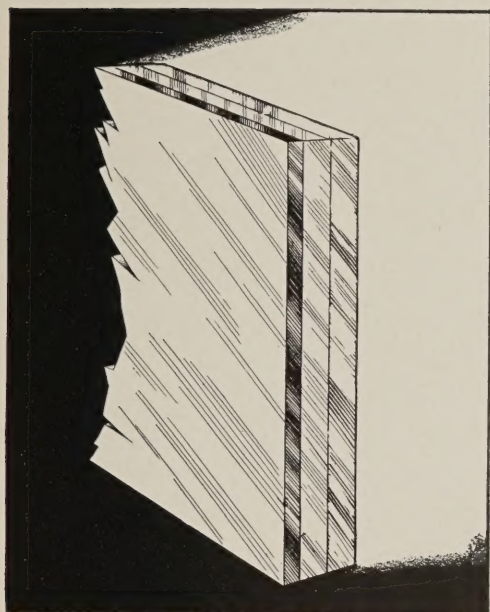
Thus Celestialite panels have proven their value in varied industries. Let this remarkable glass help you solve unusual lighting problems. Available in sizes up to 30" x 30".

We manufacture and sell the glass only

next to daylight!

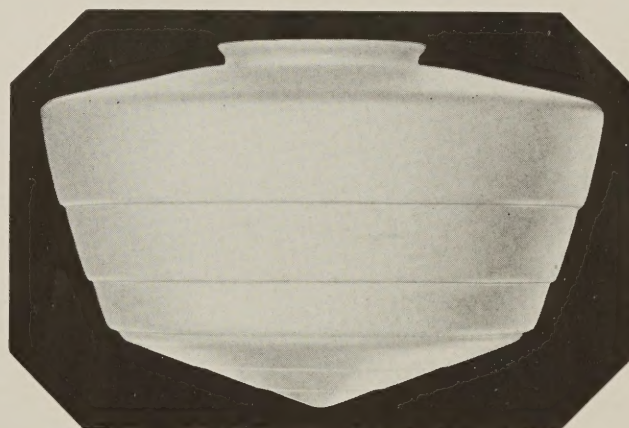
Celestialite's

3 L A Y E R S



No. 11208

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
$5\frac{3}{8}$	$4\frac{11}{16}$	$3\frac{1}{4}$	50 to 75
$9\frac{3}{8}$	$6\frac{1}{2}$	4	100
12	9	4, 5 or 6	150
$13\frac{3}{8}$	$9\frac{1}{4}$	5 or 6	200
$15\frac{3}{8}$	$10\frac{7}{8}$	6	300
18	$12\frac{7}{8}$	6	500
24	$17\frac{1}{2}$	10	750 to 1000



No. 12145

Diameter Inches	Depth Inches	Fitter Inches	Wattage Mazda Lamp
10	$6\frac{1}{2}$	4	100
12	8	4 or 6	150
14	$9\frac{1}{8}$	6	200
16	$10\frac{1}{8}$	6	300

- (1) A layer of crystal clear transparency—for body and strength.
- (2) A layer of white glass—to diffuse the rays and soften the light.
- (3) A layer of blue glass—to whiten and perfect the light.

Celestialite is a perfected lighting glass-ware which, because of its three layers, provides the closest approach to daylight practical for general lighting. Celestialite gives a very satisfactory combination of adequate quantity of light with desirable color and quality. The result is a marvelous soft, white light that safeguards the eyesight.

This three-layer construction also gives such unusual strength to Celestialite that replacement orders for breakage are rare.

We manufacture and sell the glass only

next to daylight!

